## **ABSTRACT OF THE DISCLOSURE**

An interleaved coding method can be used in a transmitter, in which the two or more pseudonoise (PN) codes are interleaved to form a longer interleaved code. The method can be used in a transmitter that includes a first code generator generating a first code of n symbols, and a second code generator generating a second code of m symbols, where n and m can be mutually prime, such as m=n+1. An interleave unit is coupled to the first and second code generators, and interleaves the symbols of the first code with the symbols of the second code to output an interleaved code. The interleaved code has a period longer than either of the constituent PN codes, providing for much increased noise tolerance over using the short codes alone, and can be detected at a much lower hardware and time cost than if using a single PN code of equal length.